

**In the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. – 96.       **(Cancelled)**

97.       **(Previously Presented)** A method of displacing fuel in a pump system comprising the steps of:

    energizing a coil by providing a first electrical path through the coil in a first direction;

    actuating the coil to drive an armature in a downward direction;

    de-energizing the coil by providing a second electrical path from the coil to a capacitor which is configured to store the energy which is dissipated from the coil;

    de-energizing the capacitor by providing a third electrical path from the capacitor to the coil by which current is driven through the coil in a second direction; and

    actuating the coil to drive the armature in an upward direction.

98.       **(Previously Presented)** A method of displacing a pumping assembly comprising the steps of:

    (a)      energizing a coil assembly to displace a pumping assembly from an initial position to cause a first pumping motion;

    (b)      storing energy in a capacitor coupled to the coil assembly; and

    (c)      discharging the energy from the capacitor to the coil assembly to displace the pumping assembly to the initial position to cause a second pumping motion.

99.       **(Previously Presented)** The method of claim 98, wherein the energy is first stored in the coil assembly, and then discharged from the coil assembly to charge the capacitor.

100.       **(Previously Presented)** An electrical circuit for providing power to a coil of a fuel injection device, comprising:

    a capacitor; and

    electrical circuitry operable to selectively couple the coil to a power source to enable current to flow from a power source through the coil in a first direction to provide power to

the fuel injection device and to selectively couple the coil to the capacitor to enable current to flow from the capacitor through the coil in a second direction to provide power to a fuel injection device.

101. **(Previously Presented)** The electrical circuit as recited in claim 100, wherein the electrical circuitry is operable to selectively couple the capacitor to the power source to charge the capacitor.

102. **(Previously Presented)** The electrical circuit as recited in claim 101, wherein the electrical circuitry couples the capacitor to the power source through the coil to charge the capacitor.

103. **(Previously Presented)** The electrical circuit as recited in claim 100, further comprising the coil.

104. **(Previously Presented)** The electric circuit as recited in claim 100, wherein the electrical circuitry comprises electronic switching devices operable to selectively complete and open conductive paths between the power source, coil, and capacitor.

105. **(Previously Presented)** A method of operating a fuel pump, comprising the acts of:  
operating electrical circuitry to produce current flow in a first direction through a coil to produce motion in a first portion of the fuel pump in a first linear direction;

operating the electrical circuitry to apply power to a capacitor to charge the capacitor;  
and

operating the electrical circuitry to discharge the capacitor through the coil to produce current flow through the coil in a second direction to produce motion in the first portion of the fuel pump in a second linear direction, opposite the first linear direction.

106. **(Previously Presented)** The method as recited in claim 105, wherein fuel is injected into a combustion chamber by a second portion of the fuel pump as the first portion of the fuel pump is driven in the first linear direction.